

# LOGAN Energy's Hydrogen Compressor

Reliable and cost competitive hydrogen compression solution

Logan Energy offer hydrogen compression solutions to meet the requirements of the various hydrogen end use cases.

Our hydraulic piston compressors are customised to meet our clients' requirements and provide optimum performance and reliable operation.



## Product Overview

Logan Energy has developed a high performance, high availability compressor by utilising a decade of operation and maintenance experience.

We customise our hydraulic piston compression system to provide an interface that meets the hydrogen production and end use requirements.

## Applications

required pressures for the various applications; from vehicle refuelling infrastructure, tube trailer filling or pipeline injection.

Our compression solutions include single or multi-stage compression to meet the system requirements. We work closely with our clients to provide an optimised solution for the system.

## Operating Range

Our compressors can be customised and built to meet the system's pressure and flow rate specifications. Our typical operating range includes:

- 30 bar inlet pressure, but can go down to 10 bar if required
- 500 bar delivery pressure
- Flow rate between 10 and 100 kg per hr

## Features & Benefits

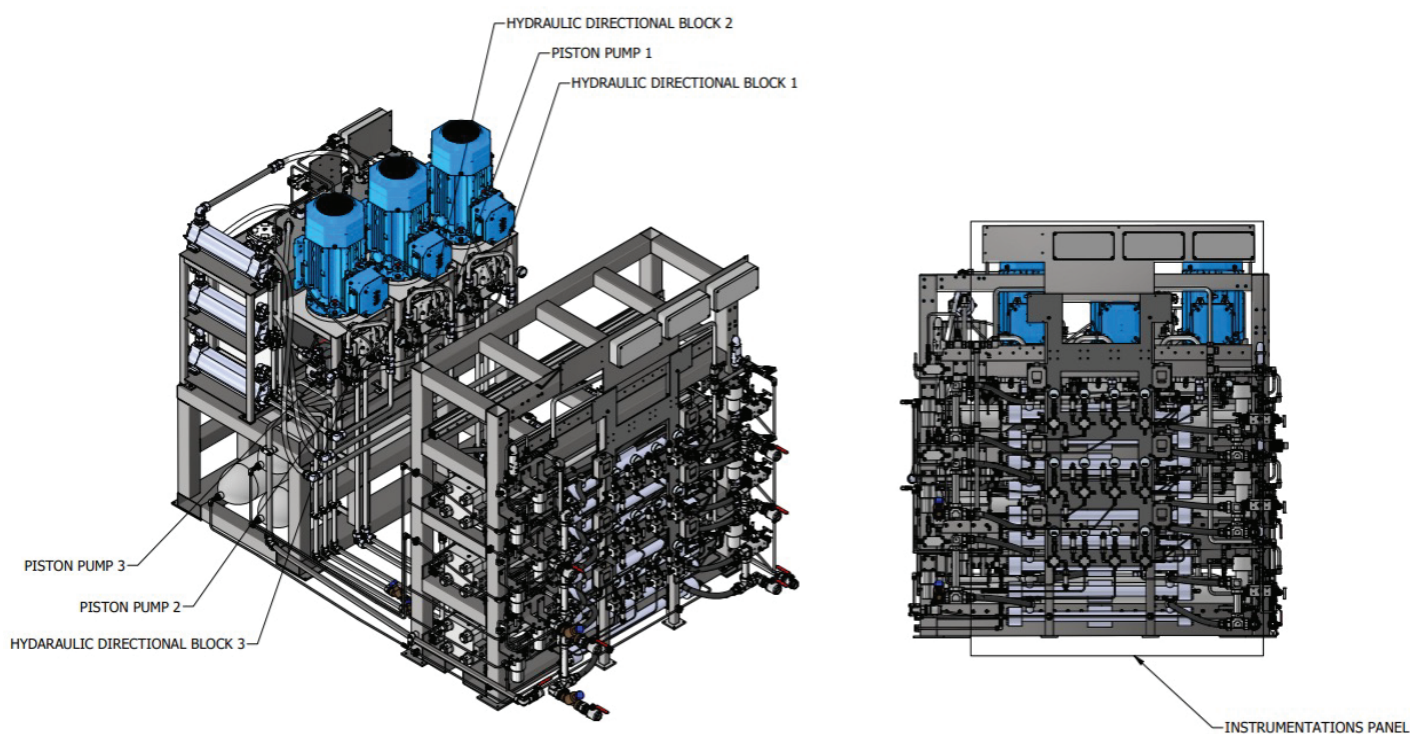
<b>High reliability</b>	<ul style="list-style-type: none"><li>• High reliability and performance through utilizing compression cylinders and seals optimized and tested for hydrogen.</li></ul>
<b>High availability</b>	<ul style="list-style-type: none"><li>• Low downtime for preventative and reactive system maintenance.</li><li>• Compression cylinders mounted on moving racks providing ease of installation and maintenance.</li></ul>
<b>Space efficiency</b>	<ul style="list-style-type: none"><li>• Efficiency by allowing the integration of up to 4 cylinders within one container system.</li></ul>
<b>High purity</b>	<ul style="list-style-type: none"><li>• Oil-free process on the hydrogen side ensuring the hydrogen purity is maintained.</li></ul>
<b>Safety</b>	<ul style="list-style-type: none"><li>• Safe by design approach through the integration of gas detection, valve isolation, and automatic venting and shutdown.</li></ul>

# Hydrogen Compressor

## Technical Specifications

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### General Arrangement



<b>Weight</b>	3,500 kg
<b>Dimensions</b>	5780 x 2280 x 3370 mm (including vents)
<b>Gas Inlet</b>	Staubli Quick Connect
<b>Outlet Connections</b>	<ul style="list-style-type: none"> <li>• 1 x 200 bar cylinder filling hose with BS342 Type4 connector*</li> <li>• 1 x 350 bar vehicle refuelling hose with WEH nozzle</li> <li>• 1 x 450 bar hose with Staubli Quick Connect</li> </ul> <p><small>*alternatively, this connection can be configured with a BS341 Type38 connection for 300bar</small></p>

<b>Inlet Pressure</b>	10 to 450/500 bar
<b>Outlet Pressure</b>	200/300bar, 350bar & 450/500bar
<b>H2 Compressor Type</b>	Hydraulic
<b>Ambient Temp. Range</b>	-10 to 50 °C
<b>Min/Max Power Consumption</b>	11/75 kW
<b>Power Supply</b>	415V, 50Hz, 63A 3P+N+E

Logan Energy  
is ready to support your  
next project.

Contact us to discuss.

**LOGAN Energy**  
Hydrogen Technologies

Tel: +44 (0)131 665 4047  
Email: [info@loganenergy.com](mailto:info@loganenergy.com)

Logan Energy Head Office and  
Technology Centre  
7 Wallyford Industrial Estate  
Edinburgh, EH21 8QJ